

Appendix B

An Interface Description Language File for the COIGN System

```
//
11
#ifndef _COIGNIDL_IDL_
#define COIGNIDL_IDL_
11
import "objidl.idl";
import "oaidl.idl";
import "oleidl.idl";
interface ICoignHost;
interface ICoignFactory;
typedef struct CCallHistory
{
    IID
                m Iid;
    // 0 if function call.
                                            // 0 if
    ULONG
            m nObjectClassification;
function call.
                                                 // VA if
    ULONG
            m nMemberFunction;
function call.
                                                 // N/A,
    ULONG
            m nStackFrame;
Testing only.
    ULONG
            m n1;
} CCallHistory;
[object, uuid(7e78c140-5c6f-11d1-98ff-006097b010e3),pointer default(unique),
locall
interface IPersistBuffer : IPersist
  HRESULT IsDirty(void);
  HRESULT Load([in, unique, size_is(cbData)] BYTE *pbData,
                 [in] ULONG cbData);
}
[object, uuid(7e78c141-5c6f-11d1-98ff-006097b010e3),pointer_default(unique),
interface IPersistBufferInit : IPersistBuffer
{
  HRESULT InitNew(void);
}
```

```
[object, uuid(9ceeb054-e415-11d0-98d1-006097b010e3), pointer default(unique)]
interface ICoignHost : IUnknown
     ///////// Create Factory.
     HRESULT
                      IsAlive(void);
                      GetHostFactory([in] ULONG nHostId,
     HRESULT
                                          [out] ICoignFactory **ppFactory);
                      GetHostInternal([in] ULONG nHostId,
     HRESULT
                                             [out] ICoignFactory
**ppFactory);
                      SetHome([in] ICoignFactory *pHome,
     HRESULT
                                  [in] ULONG nHostId,
                                  [in, size is(cbData)] BYTE *pbData,
                                  [in] ULONG cbData,
                                  [in] ULONG nSystemObjectToken,
                                  [in] ULONG nApplicationObjectToken);
                      ClearHome (ULONG nKey);
     HRESULT
                      LogData([in, size_is(cbData)] BYTE *pbData,
     HRESULT
                                  [in] ULONG cbData);
     HRESULT
                      ExtraData([in] const CLSID *pClsid,
                                    [in, size is(cbData)] BYTE *pbData,
                                    [in] ULONG cbData);
     HRESULT
                      MessageData([in, size is(cbData)] BYTE *pbData,
                                       [in] ULONG cbData);
     HRESULT
                      GetCallHistory([in] ULONG nFrameAddress,
                                          [out] ULONG *pnRecords,
                                          [out, size is(, *pnRecords)]
CCallHistory **prgRecords);
};
[object, uuid(9ceeb056-e415-11d0-98d1-006097b010e3), pointer default(unique)]
interface ICoignFactory : ICoignHost
     HRESULT
                      CoGetClassObject([in] ULONG nObjectClassification,
                                              [in] REFCLSID rclsid,
                                              [in] DWORD dwClsContext,
                                              /* PVOID */ DWORD pvReserved,
                                              [in] REFIID riid,
                                              [out, iid is(riid)] void
**ppv);
                      CoGetInstanceFromFile([in] ULONG nObjectClassification,
     HRESULT
                                                     [in, unique]
COSERVERINFO *pServerInfo,
                                                     [in, unique] CLSID
*pClsid,
                                                     [in] IUnknown
*punkOuter,
                                                     [in] DWORD dwClsCtx,
                                                     [in] DWORD grfMode,
```

```
[in, string] const
OLECHAR *pwszName,
                                                          [in] REFIID riid, /* was
MULTI QI/ */
                                                          [out, iid is(riid)] void
**ppv);
                        CoGetInstanceFromIStorage([in] ULONG
      HRESULT
nObjectClassification,
                                                                [in, unique]
COSERVERINFO *pServerInfo,
                                                                [in, unique] CLSID
*pClsid,
                                                                [in] IUnknown
*punkOuter,
                                                                [in] DWORD
dwClsCtx,
                                                                [in] IStorage
*pstg,
                                                                [in] REFIID riid,
/* was MULTI QI/ */
                                                                [out,
iid is(riid)] void **ppv);
      HRESULT
                        CoCreateInstance([in] ULONG nObjectClassification,
                                                   [in] REFCLSID Clsid,
                                                   [in] IUnknown *punkOuter,
                                                   [in] DWORD dwClsCtx,
                                                   [in] REFIID riid,
                                                   [out, iid is(riid)] void
**ppv);
                        CoCreateInstanceEx([in] ULONG nObjectClassification,
      HRESULT
                                                     [in] REFCLSID Clsid,
                                                     [in] IUnknown *punkOuter,
                                                     [in] DWORD dwClsCtx,
                                                     [in, unique] COSERVERINFO
*pServerInfo,
                                                     [in] REFIID riid, /* was
MULTI QI/ */
                                                     [out, iid is(riid)] void
**ppv);
      HRESULT
                        StgCreateDocfile([in] ULONG nObjectClassification,
                                                   [in, unique, string] const
OLECHAR *pwcsName,
                                                   [in] DWORD grfMode,
                                                   [in] DWORD reserved,
                                                   [out] IStorage **ppstgOpen);
      HRESULT
                        OleCreate([in] ULONG nObjectClassification,
                                        [in] REFCLSID rclsid,
                                        [in] REFIID riid,
                                        [in] DWORD renderopt,
                                        [in, unique] FORMATETC *pFormatEtc,
                                        [in] IOleClientSite *pClientSite,
                                        [in] IStorage *pStg,
```

grfMode,

Express Man No. EM424872215US

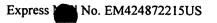
```
[out, iid_is(riid)] void **ppv);
      HRESULT
                        OleCreateFromData([in] ULONG nObjectClassification,
                                                    [in] LPDATAOBJECT pSrcDataObj,
                                                    [in] REFIID riid,
                                                    [in] DWORD renderopt,
                                                    [in, unique] LPFORMATETC
pFormatEtc,
                                                    [in] LPOLECLIENTSITE
pClientSite,
                                                    [in] LPSTORAGE pStg,
                                                    [out, iid is(riid)] void
**ppv);
                        OleLoad([in] ULONG nObjectClassification,
      HRESULT
                                     [in] IStorage *pStg,
                                     [in] REFIID riid,
                                     [in] IOleClientSite *pClientSite,
                                     [out, iid is(riid)] void **ppv);
                        CoRegisterClassObject([in] ULONG nObjectClassification,
      HRESULT
                                                          [in] REFCLSID rclsid,
                                                          [in] LPUNKNOWN pUnk,
                                                          [in] DWORD dwClsContext,
                                                          [in] DWORD flags,
                                                          [out] LPDWORD
lpdwRegister);
      HRESULT
                        StgCreateDocfileOnILockBytes([in] ULONG
nObjectClassification,
                                                                      [in]
ILockBytes *plkbyt,
                                                                      [in] DWORD
grfMode,
                                                                      [in] DWORD
reserved,
                                                                      [out]
IStorage **ppstgOpen);
      HRESULT
                        StgOpenStorage([in] ULONG nObjectClassification,
                                               [in, string] const OLECHAR
*pwcsName,
                                               [in] IStorage *pstgPriority,
                                               [in] DWORD grfMode,
                                               [in, unique] SNB snbExclude,
                                               [in] DWORD reserved,
                                               [out] IStorage **ppstgOpen);
      HRESULT
                        StgOpenStorageOnILockBytes([in] ULONG
nObjectClassification,
                                                                 [in] ILockBytes
*plkbyt,
                                                                 [in] IStorage
*pstqPriority,
                                                                 [in] DWORD
```

```
[in, unique] SNB
snbExclude,
                                                                 [in] DWORD
reserved,
                                                                 [out] IStorage
**ppstgOpen);
      HRESULT
                        StgOpenAsyncDocfileOnIFillLockBytes([in] ULONG
nObjectClassification,
      [in] IFillLockBytes *pflb,
      [in] DWORD grfMode,
      [in] DWORD asyncFlags,
      [out] IStorage **ppstgOpen);
      HRESULT
                        StgGetIFillLockBytesOnILockBytes([in] ULONG
nObjectClassification,
                                                                            [in]
ILockBytes *pilb,
                                                                            [out]
IFillLockBytes **ppflb);
                        StgGetIFillLockBytesOnFile([in] ULONG
      HRESULT
nObjectClassification,
                                                                 [in, string]
OLECHAR const *pwcsName,
                                                                 [out]
IFillLockBytes **ppflb);
      HRESULT
                        BindMoniker([in] ULONG nObjectClassification,
                                           [in] LPMONIKER pmk,
                                           [in] DWORD grfOpt,
                                           [in] REFIID riid,
                                           [out, iid is(riid)] void **ppvResult);
                        CoGetObject([in] ULONG nObjectClassification,
      HRESULT
                                           [in] LPCWSTR pszName,
                                           [in, unique] BIND OPTS *pBindOptions,
                                           [in] REFIID riid,
                                           [out, iid_is(riid)] void **ppv);
      HRESULT
                        MkParseDisplayName([in] ULONG nObjectClassification,
                                                     [in] LPBC pbc,
                                                     [in] LPCOLESTR szUserName,
                                                     [out] ULONG *pchEaten,
                                                     [out] LPMONIKER *ppmk);
                        MonikerRelativePathTo([in] ULONG nObjectClassification,
      HRESULT
                                                          [in] LPMONIKER pmkSrc,
                                                          [in] LPMONIKER pmkDest,
                                                          [out] LPMONIKER *ppmk,
                                                          [in] BOOLEAN
dwReserved);
```

HRESULT nObjectClassification,	MonikerCommonPrefixWith([in] ULONG	
-	[in] LPMONIKER	
pmkThis,	[in] LPMONIKER	
pmkOther,	[out] LPMONIKER	
*ppmk);	Ç, ————————————————————————————————	
HRESULT	<pre>CreateBindCtx([in] ULONG nObjectClassification,</pre>	
HRESULT	CreateGenericComposite([in] ULONG nObjectClassification, [in] LPMONIKER	
pmkFirst,	[in] LPMONIKER pmkRest,	
	[out] LPMONIKER *ppmk);	
HRESULT	<pre>CreateClassMoniker([in] ULONG nObjectClassification,</pre>	
HRESULT	<pre>CreateFileMoniker([in] ULONG nObjectClassification,</pre>	
HRESULT	<pre>CreateItemMoniker([in] ULONG nObjectClassification,</pre>	
HRESULT	<pre>CreateAntiMoniker([in] ULONG nObjectClassification,</pre>	
HRESULT	<pre>CreatePointerMoniker([in] ULONG nObjectClassification,</pre>	
HRESULT	GetRunningObjectTable([in] ULONG nObjectClassification, [in] DWORD reserved,	
[out] LPRUNNINGOBJECTTABLE *pprot);		
HRESULT	CreateDataAdviseHolder([in] ULONG nObjectClassification, [out]	
LPDATAADVISEHOLDER* ppD		
HRESULT	OleCreateEx([in] ULONG nObjectClassification,	
rgAdvf,	•	

```
[in, unique, size is(cFormats)]
LPFORMATETC rgFormatEtc,
                                            [in] IAdviseSink* lpAdviseSink,
                                            [out, size is(cFormats)] DWORD*
rgdwConnection,
                                            [in] LPOLECLIENTSITE pClientSite,
                                            [in] LPSTORAGE pStg,
                                            [out, iid is(riid)] void **ppv);
      HRESULT
                         OleCreateFromDataEx([in] ULONG nObjectClassification,
                                                         [in] LPDATAOBJECT
pSrcDataObj,
                                                         [in] REFIID riid,
                                                         [in] DWORD dwFlags,
                                                         [in] DWORD renderopt,
                                                         [in] ULONG cFormats,
                                                         [in, unique,
size is(cFormats)] DWORD* rgAdvf,
                                                         [in, unique,
size is(cFormats)]
                                                        LPFORMATETC rgFormatEtc,
                                                         [in] IAdviseSink*
lpAdviseSink,
                                                         [out, size is(cFormats)]
DWORD* rgdwConnection,
                                                         [in] LPOLECLIENTSITE
pClientSite,
                                                         [in] LPSTORAGE pStg,
                                                         [out, iid is(riid)] void
**ppv);
                         OleCreateLinkFromData([in] ULONG nObjectClassification,
      HRESULT
                                                           [in] LPDATAOBJECT
pSrcDataObj,
                                                           [in] REFIID riid,
                                                           [in] DWORD renderopt,
                                                           [in, unique] LPFORMATETC
pFormatEtc,
                                                           [in] LPOLECLIENTSITE
pClientSite,
                                                           [in] LPSTORAGE pStq.
                                                           [out, iid is(riid)] void
**ppv);
      HRESULT
                         OleCreateLinkFromDataEx([in] ULONG
nObjectClassification,
                                                               [in] LPDATAOBJECT
pSrcDataObj,
                                                               [in] REFIID riid,
                                                               [in] DWORD dwFlags,
                                                               [in] DWORD
renderopt,
                                                               [in] ULONG cFormats,
                                                               [in, unique,
size is(cFormats)] DWORD* rgAdvf,
                                                               [in, unique,
size is(cFormats)]
```

HRESULT



Appendix B

LPFORMATETC rgFormatEtc, [in] IAdviseSink* lpAdviseSink, [out, size is(cFormats)] DWORD* rgdwConnection, [in] LPOLECLIENTSITE pClientSite, [in] LPSTORAGE pStg, [out, iid is(riid)] void **ppv); OleCreateStaticFromData([in] ULONG HRESULT nObjectClassification, [in] LPDATAOBJECT pSrcDataObj, [in] REFIID riid, [in] DWORD renderopt, [in, unique] LPFORMATETC pFormatEtc, [in] LPOLECLIENTSITE pClientSite, [in] LPSTORAGE pStg, [out, iid is(riid)] void **ppv); HRESULT OleCreateLink([in] ULONG nObjectClassification, [in] LPMONIKER pmkLinkSrc, [in] REFIID riid, [in] DWORD renderopt, [in, unique] LPFORMATETC lpFormatEtc, [in] LPOLECLIENTSITE pClientSite, [in] LPSTORAGE pStg, [out, iid is(riid)] void **ppv); HRESULT OleCreateLinkEx([in] ULONG nObjectClassification, [in] LPMONIKER pmkLinkSrc, [in] REFIID riid, [in] DWORD dwFlags, [in] DWORD renderopt, [in] ULONG cFormats, [in, unique, size is(cFormats)] DWORD* rgAdvf, [in, unique, size_is(cFormats)] LPFORMATETC rgFormatEtc, [in] IAdviseSink* lpAdviseSink, [out, size_is(cFormats)] DWORD* rgdwConnection, [in] LPOLECLIENTSITE pClientSite, [in] LPSTORAGE pStg, [out, iid is(riid)] void **ppv);

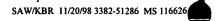
OleCreateLinkToFile([in] ULONG nObjectClassification,

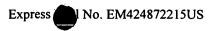
		[in] LPCOLESTR
lpszFileName,		[in] REFIID riid, [in] DWORD renderopt,
lpFormatEtc,		[in, unique] LPFORMATETC
pClientSite,		[in] LPOLECLIENTSITE
**ppv);		<pre>[in] LPSTORAGE pStg, [out, iid_is(riid)] void</pre>
HRESULT	OleCreateLinkToFileEx([in] U	LONG nObjectClassification,
lpszFileName,		[in] LPCOLESTR
		<pre>[in] REFIID riid, [in] DWORD dwFlags, [in] DWORD renderopt, [in] ULONG cFormats, [in, unique,</pre>
size_is(cFormats)] DWOF	RD* rgAdvf,	[in, unique,
size_is(cFormats)]		LPFORMATETC rgFormatEtc,
lpAdviseSink,		[in] IAdviseSink*
DWORD* rgdwConnection,		<pre>[out, size_is(cFormats)]</pre>
-		[in] LPOLECLIENTSITE
pClientSite,		<pre>[in] LPSTORAGE pStg, [out, iid_is(riid)] void</pre>
**ppv);		[000, 110_13(1110)] void
HRESULT	[i [i [i	n] REFCLSID rclsid, n] LPCOLESTR lpszFileName, n] REFIID riid, n] DWORD renderopt,
lpFormatEtc,		n, unique] LPFORMATETC
pClientSite,	[i	n] LPSTORAGE pStg,
**ppv);	O	ut, iid_is(riid)] void
HRESULT	OleCreateFromFileEx([in] ULO	NG nObjectClassification, [in] REFCLSID rclsid, [in] LPCOLESTR
<pre>lpszFileName, size_is(cFormats)] DWOF</pre>	RD* rgAd v f,	<pre>[in] REFIID riid, [in] DWORD dwFlags, [in] DWORD renderopt, [in] ULONG cFormats, [in, unique,</pre>

sias is (alla maha) l	[in, unique,
size_is(cFormats)]	LPFORMATETC rgFormatEtc, [in] IAdviseSink*
lpAdviseSink,	<pre>[out, size_is(cFormats)]</pre>
DWORD* rgdwConnection,	[in] LPOLECLIENTSITE
pClientSite,	<pre>[in] LPSTORAGE pStg, [out, iid_is(riid)] void</pre>
**ppv);	
HRESULT	<pre>OleLoadFromStream([in] ULONG nObjectClassification,</pre>
**ppv);	(121, 111 <u>-</u> 11, 1111)
HRESULT	<pre>OleGetClipboard([in] ULONG nObjectClassification,</pre>
HRESULT	CreateOleAdviseHolder([in] ULONG nObjectClassification, [out] LPOLEADVISEHOLDER*
ppOAHolder);	[ode] Housing Housing
HRESULT nObjectClassification,	OleCreateDefaultHandler([in] ULONG
	<pre>[in] REFCLSID clsid, [in] LPUNKNOWN</pre>
pUnkOuter,	<pre>[in] REFIID riid, [out, iid_is(riid)]</pre>
<pre>void **ppObj);</pre>	
HRESULT nObjectClassification,	OleCreateEmbeddingHelper([in] ULONG
clsid,	[in] REFCLSID
pUnkOuter,	[in] LPUNKNOWN
	[in] DWORD flags, [in] LPCLASSFACTORY
pCF,	<pre>[in] REFIID riid, [out, iid is(riid)]</pre>
<pre>void **ppObj);</pre>	
HRESULT	OleRegEnumFormatEtc([in] ULONG nObjectClassification, [in] REFCLSID clsid, [in] DWORD dwDirection, [out] LPENUMFORMATETC*
ppenum);	
HRESULT	<pre>OleRegEnumVerbs([in] ULONG nObjectClassification,</pre>

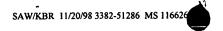
```
};
////////// Logger Interfaces.
interface ICoignLogger;
interface ICoignLoggerObject;
interface ICoignLoggerInterface;
enum {
      ECoignFid Application
                                                                   = 9000,
                                                                   = 9001,
      ECoignFid System
                                                                   = 9002,
      ECoignFidCoGetClassObject
                                                                   = 9003,
      ECoignFidCoGetInstanceFromFile
                                                             = 9004,
      ECoignFidCoGetInstanceFromIStorage
                                                                   = 9005,
      ECoignFidStgCreateDocfile
                                                                   = 9006,
      ECoignFidCoCreateInstanceEx
                                                                   = 9008,
      ECoignFidCoRegisterClassObject
      ECoignFidStgCreateDocfileOnILockBytes
                                                            = 9009,
      ECoignFidStgOpenStorage
                                                                   = 9010,
                                                            = 9011,
      ECoignFidStgOpenStorageOnILockBytes
      ECoignFidStgOpenAsyncDocfileOnIFillLockBytes
                                                      = 9012,
                                                      = 9013,
      ECoignFidStgGetIFillLockBytesOnILockBytes
                                                             = 9014,
      ECoignFidStgGetIFillLockBytesOnFile
                                                                   = 9015,
      ECoignFidBindMoniker
      ECoignFidCoGetObject
                                                                   = 9016,
      ECoignFidMkParseDisplayName
                                                                   = 9017,
      ECoignFidMonikerRelativePathTo
                                                                   = 9018,
                                                             = 9019,
      ECoignFidMonikerCommonPrefixWith
                                                                   = 9020,
      ECoignFidCreateBindCtx
      ECoignFidCreateGenericComposite
                                                                   = 9021,
                                                                   = 9022.
      ECoignFidCreateClassMoniker
                                                                   = 9023,
      ECoignFidCreateFileMoniker
                                                                   = 9024,
      ECoignFidCreateItemMoniker
                                                                   = 9025,
      ECoignFidCreateAntiMoniker
                                                             = 9026,
      ECoignFidCreatePointerMoniker
                                                                   = 9027,
      ECoignFidGetRunningObjectTable
                                                                   = 9028,
      ECoignFidCreateDataAdviseHolder
                                                                         = 9029,
      ECoignFidOleCreate
                                                                   = 9030,
      ECoignFidOleCreateEx
                                                                   = 9031,
      ECoignFidOleCreateFromData
                                                             = 9032,
      ECoignFidOleCreateFromDataEx
                                                                   = 9033.
      ECoignFidOleCreateLinkFromData
                                                             = 9034,
      ECoignFidOleCreateLinkFromDataEx
      ECoignFidOleCreateStaticFromData
                                                             = 9035,
                                                                   = 9036,
      ECoignFidOleCreateLink
                                                                   = 9037,
      ECoignFidOleCreateLinkEx
                                                             = 9038,
      ECoignFidOleCreateLinkToFile
                                                                   = 9039,
      ECoignFidOleCreateLinkToFileEx
                                                                   = 9040,
      ECoignFidOleCreateFromFile
                                                             = 9041,
      ECoignFidOleCreateFromFileEx
                                                                   = 9042,
      ECoignFidOleLoad
                                                                   = 9043,
      ECoignFidOleLoadFromStream
                                                                   = 9044,
      ECoignFidOleGetClipboard •
                                                                   = 9045.
      ECoignFidCreateOleAdviseHolder
                                                             = 9046,
      ECoignFidOleCreateDefaultHandler
                                                             = 9047,
      ECoignFidOleCreateEmbeddingHelper
```

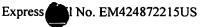
```
= 9048,
      ECoignFidOleRegEnumFormatEtc
                                                                    = 9049,
      ECoignFidOleRegEnumVerbs
      ECoignFidOleCreateFontIndirect
                                                                    = 9050,
                                                              = 9051,
      ECoignFidOleCreatePictureIndirect
                                                                    = 9052,
      ECoignFidOleLoadPicture
                                                                    = 9053,
      ECoignFidOleLoadPicturePath
                                                                    = 9054,
      ECoignFidOleLoadPictureFile
                                                                    = 9055,
      ECoignFidCoCreateInstance
      ECoignFixMaximumValue
};
[object, local, uuid(9ceeb060-e415-11d0-98d1-006097b010e3),
pointer default(unique)]
interface ICoignLogger : IUnknown
      HRESULT
                        Reset();
      HRESULT
                        Flush();
      HRESULT
                        EnableRecord();
                        DisableRecord();
      HRESULT
                        TestRecord();
      HRESULT
                        LogExtraData([in] const CLSID *pClsid,
      HRESULT
                                            [in, size_is(cbData)] BYTE *pbData,
                                            [in] ULONG cbData);
                        CreateThread([out] ULONG *pnThreadToken);
      HRESULT
      HRESULT
                        DeleteThread([in] ULONG nThreadToken);
      HRESULT
                        CreateObject([in] ULONG nThreadToken,
                                            [in] ULONG nCreatorObjectToken,
                                            [in] ULONG nCoignFid,
                                            [in] ULONG nObjectClassification,
                                            [in] const CLSID *pClsid,
                                            [out] ULONG *pnObjectToken);
                         DeleteObject([in] ULONG nThreadToken,
      HRESULT
                                            [in] ULONG nObjectToken);
                        SetObjectClass([in] ULONG nObjectToken,
      HRESULT
                                               [in] const CLSID *pClsid);
                        SetObjectConstraint([in] ULONG nObjectToken,
      HRESULT
                                                        [in] ULONG
nObjectConstraint);
      HRESULT
                        CreateInterface([in] ULONG nThreadToken,
                                                  [in] ULONG nObjectToken,
                                                  [in] ULONG nInterfaceType,
                                                  [out] ULONG *pnInterfaceToken);
      HRESULT
                        DeleteInterface([in] ULONG nThreadToken,
                                                  [in] ULONG nObjectToken,
                                                  [in] ULONG nInterfaceToken);
                        SetInterfaceConstraint([in] ULONG nThreadToken,
      HRESULT
                                                           [in] ULONG
nCallerObjectToken,
                                                           [in] ULONG
nObjectToken,
```





```
[in] ULONG
nInterfaceToken,
                                                        [in] ULONG
nInterfaceConstraint);
     HRESULT
                       Enter([in] ULONG nThreadToken,
                               [in] ULONG nCallerObjectToken,
                               [in] ULONG nObjectToken,
                               [in] ULONG nInterfaceToken,
                               [in] ULONG nFunction,
                               [out] ULONG *pnCallToken,
                               [out] LONGLONG *pllEnterCycle);
                       Leave([in] ULONG nThreadToken,
     HRESULT
                               [in] ULONG nObjectToken,
                               [in] ULONG nInterfaceToken,
                               [in] ULONG nCallToken,
                               [in] ULONG nInBytes,
                               [in] ULONG nInUncertainty,
                               [in] ULONG nOutBytes,
                               [in] ULONG nOutUncertainty,
                               [in] LONGLONG llEnterCycle,
                               [in] LONGLONG llInnerCycles,
                               [in] HRESULT hrResult,
                               [out] LONGLONG *pllOuterCycles);
     HRESULT
                       LoadModule([in] ULONG dwBeg,
                                      [in] ULONG dwEnd,
                                      [in, string] OLECHAR *pwszModule,
                                      [out] ULONG *pnModuleToken);
     HRESULT
                       SetObjectModule([in] ULONG nObjectToken,
                                               [in] ULONG nModuleToken);
};
[object, local, uuid(9ceeb071-e415-11d0-98d1-006097b010e3),
pointer default(unique)]
interface ICoignObjectClassifier : IUnknown
{
                       GetObjectClassification([in] ULONG nFunctionId,
     HRESULT
                                                 [in] ULONG nHistoryRecords,
[in,unique,size is(nHistoryRecords)]
                                                const CCallHistory *pHistory,
                                                 [in,unique] const CLSID
*pClsid,
                                                 [out] ULONG
*pnObjectClassification);
};
[object, local, uuid(9ceeb080-e415-11d0-98d1-006097b010e3),
pointer default(unique)]
interface ICoignInterfaceCallback : IUnknown
{
                       IncomingInterface([in] ULONG nObjectCallbackToken,
     HRESULT
                                                 [in] const IID *pIid,
                                                 [in,out] PVOID *ppv);
```





```
OutgoingInterface([in] ULONG nObjectCallbackToken,
      HRESULT
                                                    [in] const IID *pIid,
                                                    [in,out] PVOID *ppv);
};
[object, local, uuid(9ceeb081-e415-11d0-98d1-006097b010e3),
pointer default (unique)]
interface ICoignInterfaceInformer : IUnknown
{
                        IsValidInterface([in] ULONG nInterfaceTypeToken);
      HRESULT
      HRESULT
                        GetInterfaceInfo([in] const IID *pIid,
                                                   [out] ULONG
*pnInterfaceTypeToken);
                        SetInterfaceCallback([in] ICoignInterfaceCallback
      HRESULT
*pCallback);
      HRESULT
                        IsExtension([in] ULONG nBaseInterfaceTypeToken,
                                            [in] ULONG nInterfaceTypeToken);
      HRESULT
                        GetInterfaceDescription([in] ULONG nInterfaceTypeToken,
                                                              fout.
size is(nMaxSize), string] OLECHAR *pwzName,
                                                              [in] ULONG
nMaxSize);
      HRESULT
                        GetInterfaceIID([in] ULONG nInterfaceTypeToken,
                                                  [out] const IID **ppIid);
      HRESULT
                        SizeIncomingDataLocal([in] ULONG nObjectCallbackToken,
                                                          [in] ULONG
nInterfaceTypeToken,
                                                          [in] ULONG
nMemberFunction,
                                                          [in] ULONG
*pStackPointer,
                                                          [in] ULONG *pStackFrame,
                                                          [out] ULONG
*pnFrameSize,
                                                          [out] ULONG *pnDataSize,
                                                          [out] ULONG
*pnUncertainty);
      HRESULT
                        SizeIncomingDataRemote([in] ULONG nObjectCallbackToken,
                                                           [in] ULONG
nInterfaceTypeToken,
                                                           [in] ULONG
nMemberFunction,
                                                           [in] ULONG
*pStackPointer,
                                                           [in] ULONG
*pStackFrame,
                                                           [out] ULONG
*pnThunkAddr,
```

```
[out] ULONG
*pnFrameSize,
                                                       [out] ULONG
*pnDataSize,
                                                       [out] ULONG
*pnUncertainty);
                       SizeOutgoingDataLocal([in] ULONG nObjectCallbackToken,
     HRESULT
                                                      [in] ULONG
nInterfaceTypeToken,
                                                      [in] ULONG
nMemberFunction,
                                                      [in] ULONG
*pStackPointer,
                                                      [in] ULONG *pStackFrame,
                                                      [out] ULONG
*pnFrameSize,
                                                      [out] ULONG *pnDataSize,
                                                      [out] ULONG
*pnUncertainty);
     HRESULT
                       SizeOutgoingDataRemote([in] ULONG nObjectCallbackToken,
                                                       [in] ULONG
nInterfaceTypeToken,
                                                       [in] ULONG
nMemberFunction,
                                                       [in] ULONG
*pStackPointer,
                                                       [in] ULONG
*pStackFrame,
                                                       [out] ULONG
*pnFrameSize,
                                                       [out] ULONG
*pnDataSize,
                                                       [out] ULONG
*pnUncertainty);
[object, local, uuid(9ceeb090-e415-11d0-98d1-006097b010e3),
pointer default(unique)]
interface ICoignInternalInterface : IUnknown
};
[object, local, uuid(9ceeb091-e415-11d0-98d1-006097b010e3),
pointer default(unique)]
interface ICoignUnknownInterface : IUnknown
};
[object, local, uuid(9ceeb092-e415-11d0-98d1-006097b010e3),
pointer default(unique)]
interface ICoignConstraintInterface : IUnknown
{
};
```

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Appendix B

// #endif // _COIGNIDL_IDL_